

# Appendix C

## Acronyms

$\delta^{13}\text{C}$	Ratio of stable carbon isotopes, $^{13}\text{C}/^{12}\text{C}$
ADCP	Acoustic Doppler Current Profiler
AIRS	Atmospheric Infrared Sounder
ARGO	Global array of temperature/salinity profiling floats
ATM	Atmospheric Transport Model
BATS	Bermuda Atlantic Time Series
BBRS	Bermuda Biological Research Station
BOGCM	Biogeochemical Ocean General Circulation Model
BOREAS	Boreal Ecosystem-Atmosphere Study
BSOP	Bottom Stationed Ocean Profiler
CalCOFI	California Cooperative Oceanic Fisheries Investigation
CCSP	U.S. Carbon Cycle Science Plan
CDIAC	Carbon Dioxide Information Analysis Center (DOE)
CLIVAR	Climate Variability and Predictability (WCRP program)
CMDL	Climate Monitoring and Diagnostics Laboratory (NOAA)
CO <sub>2</sub>	Carbon dioxide
COBRA	CO <sub>2</sub> Budget and Rectification Airborne Study
CSIRO	Commonwealth Scientific and Industrial Research Organisation
CU-INSTAAR	Colorado University/Institute of Arctic and Alpine Research
CTD	Conductivity/temperature/depth profiler
DAO	Data Assimilation Office (NASA)
DIC	Dissolved inorganic carbon
DMS	Dimethylsulfide
DOC	Dissolved organic carbon
DOE	Department of Energy
DON	Dissolved organic nitrogen
ECCO	Estimating the Circulation and Climate of the Ocean
ECMWF	European Center for Medium-Range Weather Forecasting
ENSO	El Niño/Southern Oscillation
EOS	Earth Observing System (NASA)
EU	European Union
FLIP	Floating instrument platform (SIO)
GAIM	Global Analysis, Integration, and Modeling (IGBP)
GCM	General circulation model
GCOS	Global Climate Observing System (WMO)
GCTM	Global chemistry transport model
GEOSECS	Geochemical Ocean Sections Program
GMCC	Geophysical Monitoring for Climatic Change (NOAA)
GODAE	Global Ocean Data Assimilation Experiment
GOOS	Global Ocean Observing System (WMO)
HNLC	High-nitrate, low-chlorophyll
HOT	Hawaii Ocean Time-series Program
IGBP	International Geosphere-Biosphere Programme
IR	Infrared
JGOFS	Joint Global Ocean Flux Program (IGBP program)
LBA	Large Scale Biosphere-Atmosphere Experiment in Amazonia (NASA)
LTER	U.S. Long Term Ecological Research network (NSF)

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MBARI	Monterey Bay Aquarium Research Institute
MLO	Mauna Loa Observatory
N <sub>2</sub>	Gaseous nitrogen
NAO	North Atlantic Oscillation
NASA	National Aeronautics and Space Administration
NCAR	National Center for Atmospheric Research
NCEP	National Centers for Environmental Prediction (NWS)
NDVI	Normalized Difference Vegetation Index
NOAA	National Oceanic and Atmospheric Administration
NSF	National Science Foundation
NWP	Numerical Weather Prediction
NWS	National Weather Service
O <sub>2</sub>	Gaseous oxygen
OAR	Oceanic and Atmospheric Research (NOAA)
OCMIP	Ocean Carbon Model Intercomparison Project (IGBP)
OCTET	Ocean Carbon Transformation Exchange and Export
OGP	Office of Global Programs (NOAA)
Omelet	Amalgam of various ocean community plans for carbon cycle research (NSF)
PALACE	Profiling Autonomous Lagrangian Current Explorer
PBECS	Pacific Basin Extended Climate Study
PBL	Planetary Boundary Layer
pCO <sub>2</sub>	Partial pressure of carbon dioxide
PDO	Pacific Decadal Oscillation
PIC	Particulate inorganic carbon
PMEL	Pacific Marine Environmental Laboratory (NOAA)
POC	Particulate organic carbon
PON	Particulate organic nitrogen
QuickSCAT	Quick scatterometer (NASA)
RIOMAR	Transport, transformation, and fate of carbon in river-dominated ocean margins
SAFARI2000	Southern African Regional Science Initiative (NASA)
SBIR	Small Business Innovation Research
SEAS	Spectrophotometric Analysis System
SeaWiFS	Sea-viewing wide field-of-view sensor (NASA)
SKYHI	Troposphere-Stratosphere-Mesosphere General Circulation Model
SSS	Sea surface salinity
SST	Sea surface temperature
TA	Total alkalinity
TAO	Tropical Atmosphere-Ocean Array
TCO <sub>2</sub>	Total dissolved inorganic carbon
TEM	Terrestrial Ecosystem Model
TOPEX	Topographical Experiment for Ocean Circulation (joint U.S.-French satellite)
TOS	The Oceanographic Society
TransCom	Atmospheric Tracer Transport Model Intercomparison
TSG	Thermosalinograph
US SOLAS	U.S. Surface Ocean–Lower Atmosphere Study
VOS	Volunteer observing ships
WCRP	World Climate Research Programme
WITN	WITN station tall-tower observation site in North Carolina
WLEF	WLEF station tall-tower observation site in Wisconsin
WMO	World Meteorological Organization
WOCE	World Ocean Circulation Experiment
XBT	Expendable bathythermograph